

7. ABSTRACT:

Applicant thanks Examiner for help in identifying excessive word content problems with applicant's abstract of record. Attached is a replacement Abstract. Also attached is a copy of the abstract of record marked up with additions and deletions.

The following is a substitute abstract, no new matter is added.

PRESSURIZED FLUID CONTROLLER USING TILT / PUSH / PULL OPERATOR

Abstract: An intuitive pressurized fluid controller using tilt / push / pull (3 axis) operator includes a swivel joint such that it can move axially and tilt. A first array of valves is arranged to be activated as the lever tilts. A second array of valves is arranged so they can be activated when the lever is pulled axially. A third array of valves is arranged so they can be activated when the lever is pushed axially. When plumbed to a plurality of pressurable positioners supporting heavy equipment, the first array of valves can control the equipment pitch and roll as the lever is tilted, and the second / third arrays of valves can control the equipment elevation as the lever is pulled / pushed.

The following is a marked up copy of the abstract of record, no new matter is added:

PRESSURIZED FLUID CONTROLLER USING TILT / PUSH / PULL OPERATOR

Abstract: An intuitive pressurized fluid controller using tilt / push / pull (3 axis) operator includes a swivel joint ~~“(33)”~~ having a through hole ~~“(14)”~~. A lever ~~“(15)”~~ passes through the hole ~~“(14)”~~ such that it can move axially and as well as tiltably. A first array of valves ~~“(18a, 18b, 18c, 18d)”~~ are is arranged radially to the lever ~~“(15)”~~ axis so they can to be activated either individually or in close pairs as the lever ~~“(15)”~~ is tilted. An actuator ~~“(17)”~~ is attached perpendicularly to and further along to the lever ~~“(15)”~~. A second array of valves ~~“(23a, 23b, 23c, 23d)”~~ are is arranged circularly to and parallel to the lever ~~“(15)”~~ and close to the actuator ~~“(17)”~~ so they can be activated when the lever ~~“(15)”~~ is pulled in it's axial direction axially. A third array of valves ~~“(20a, 20b, 20c, 20d)”~~ are is arranged circularly to and in opposite parallel alignment to the lever ~~“(15)”~~ and close to the actuator ~~“(17)”~~ so they can be activated when the

lever ~~“(15)”~~ is pushed ~~in its axial direction~~ axially. ~~Wherein, when~~ When plumbed to a plurality of pressurable positioners ~~“(27a, 27b, 27c, 27d)”~~ supporting a heavy equipment ~~“(24)”~~, the first ~~radial~~ array of valves ~~“(18a, 18b, 18c, 18d)”~~ can control the equipment ~~“(24)”~~ pitch and roll as the lever ~~“(15)”~~ is tilted, and the second and / third arrays of axial valves ~~“(23a, 23b, 23c, 23d and 20a, 20b, 20c, 20d)”~~ can control the equipment ~~“(24)”~~ elevation as the lever ~~“(15)”~~ is pulled and / pushed.

Jason L. Smith
Pressurized Fluid Controller Using Tilt / Push / Pull Operator
610 687 0599
408 204 1171
420 Strafford Ave 3D
Wayne, PA 19087